

**SYSTEM FOR PRODUCING TIME-INDEPENDENT
VIRTUAL CAMERA MOVEMENT IN MOTION
PICTURES AND OTHER MEDIA**

ABSTRACT

A system for producing virtual camera motion in a motion picture medium in which an array of cameras is deployed along a preselected path with each camera focused on a common scene. Each camera is triggered simultaneously to record a still image of the common scene, and the images are transferred from the cameras in a preselected order along the path onto a sequence of frames in the motion picture medium such as motion picture film or video tape. Because each frame shows the common scene from a different viewpoint, placing the frames in sequence gives the illusion that one camera has moved around a frozen scene (i.e., virtual camera motion). In another embodiment, a two-dimensional array of video cameras is employed. Each camera synchronously captures a series of images in rapid succession over time. The resulting array of images can be combined in any order to create motion pictures having a combination of virtual camera motion and time-sequence images.